

### ABSTRACT OF THE DISCLOSURE

Methods and systems for improving the operation of a transmission for an automotive vehicle, and in particular the transmission as installed by the original automobile manufacturer, are provided for modifying the original hydraulic circuits to increase the capacity or holding ability of the low and reverse clutches when the transmission is shifted into manual low gear to slow down a moving vehicle, and to provide a quick and smooth apply of the low and reverse clutches when the driver selects manual low when the vehicle is moving at a relatively high road speed. Further modifications to the transmission installed by the original automobile manufacturer permit the connection of two low hydraulic circuits to feed torque converter and cooler/lubrication circuits by application of relatively low fluid pressure to assure that the necessary pressure required to connect the circuits will be properly applied, notwithstanding any leaks in the hydraulic circuitry or wear on the components of the hydraulic circuitry which might adversely affect the application of the pressure necessary to connect the hydraulic circuitry.